

OIPE

## RAW SEQUENCE LISTING

DATE: 10/10/2001

PATENT APPLICATION: US/09/864,675

TIME: 11:19:00

Input Set : A:\04585.049002.SEQLIST.TXT

Output Set: N:\CRF3\10102001\I864675.raw

**ENTERED**

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4 <110> APPLICANT: Marchionni, Mark
6 <120> TITLE OF INVENTION: NRG-2 NUCLEIC ACID MOLECULES,
7 POLYPEPTIDES, AND DIAGNOSTIC AND THERAPEUTIC METHODS
10 <130> FILE REFERENCE: 04585/049002
11 <140> CURRENT APPLICATION NUMBER: US 09/864,675
13 <141> CURRENT FILING DATE: 2001-05-23
15 <150> PRIOR APPLICATION NUMBER: US 60/206,495
16 <151> PRIOR FILING DATE: 2000-05-23
18 <160> NUMBER OF SEQ ID NOS: 18
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 994
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
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29 tactcgccca gctcaagtc agtcaggac cagggtgaca aggcacccgt ggtggtggag 120
30 ggcaaggtag aggggctggt ccagccggc ggctccagct ccaacagcac ccgagagccg 180
31 ccgcctcgg gtgggtggc gttggtaaag gtgtggaca agtggcctc ccgagagcgg 240
32 ggggtgcagc gcgagcaggt gatcagcgtg ggctcctgtg tgcgctga aaggaaccag 300
33 cgtacatct ttttctgga gccacggaa cagcccttag tctttaagac ggcctttgac 360
34 cccctcgata ccaacggcaa aaatctcaag aaagaggtgg gcaagatcct gtgcactgac 420
35 tgcgcccacc gccccaagtt gaagaagatg aagagccaga cgggacaggt gggtgagaag 480
36 caatcgctga agtgtgaggc agcagccggt aatcccaagc ctctctaacg ttggttcaag 540
37 gatggcaagg agctcaaccg cagccgagac attcgcacaa aatatggcaa cggcagaaaag 600
38 aactcacgac tacagttcaa caaggtgaag gtggaggacg ctggggagta tgtctgagag 660
39 gccgagaaca tcttggggaa ggacaccgtc cggggccggc ttacgtcaa cagcgtgagc 720
40 accacccctgt catcttggtc ggggcacgcc cggaaagtga acgagacagc caagtcctat 780
41 tgcgtcaatg gaggcgtctg ctactacatc gagggcatca accagctctc ctgcaaatgt 840
42 ccaaatggat tcttcggaca gagatgtttg gagaaactgc ctttgagatt gtacatgcca 900
43 gatcctaagg aaagtgtcct gtgggataca ccggggacag gtgtcagcag ttgcgaatgg 960
44 tcaacttctc caagcacctt ggatttgaat taaa 994
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 330
48 <212> TYPE: PRT
49 <213> ORGANISM: Homo sapiens
51 <400> SEQUENCE: 2
52 Met Arg Arg Asp Pro Ala Pro Gly Phe Ser Met Leu Leu Phe Gly Val
53 1 5 10 15
54 Ser Leu Ala Cys Tyr Ser Pro Ser Leu Lys Ser Val Gln Asp Gln Ala
55 20 25 30
56 Tyr Lys Ala Pro Val Val Val Glu Gly Lys Val Gln Gly Leu Val Pro
57 35 40 45
58 Ala Gly Gly Ser Ser Ser Asn Ser Thr Arg Glu Pro Pro Ala Ser Gly
59 50 55 60
60 Arg Val Ala Leu Val Lys Val Leu Asp Lys Trp Pro Leu Arg Ser Gly
61 65 70 75 80

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62 Gly Leu Gln Arg Glu Gln Val Ile Ser Val Gly Ser Cys Val Pro Leu
63      85      90      95
64 Glu Arg Asn Gln Arg Tyr Ile Phe Phe Leu Glu Pro Thr Glu Gln Pro
65      100      105      110
66 Leu Val Phe Lys Thr Ala Phe Ala Pro Leu Asp Thr Asn Gly Lys Asn
67      115      120      125
68 Leu Lys Lys Glu Val Gly Lys Ile Leu Cys Thr Asp Cys Ala Thr Arg
69      130      135      140
70 Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly Glu Lys
71 145      150      155      160
72 Gln Ser Leu Lys Cys Glu Ala Ala Ala Gly Asn Pro Gln Pro Ser Tyr
73      165      170      175
74 Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp Ile Arg
75      180      185      190
76 Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe Asn Lys
77      195      200      205
78 Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu Asn Ile
79      210      215      220
80 Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser Val Ser
81 225      230      235      240
82 Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr
83      245      250      255
84 Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly
85      260      265      270
86 Ile Asn Gln Leu Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg
87      275      280      285
88 Cys Leu Glu Lys Leu Pro Leu Arg Leu Tyr Met Pro Asp Pro Lys Gln
89      290      295      300
90 Ser Val Leu Trp Asp Thr Pro Gly Thr Gly Val Ser Ser Ser Gln Trp
91 305      310      315      320
92 Ser Thr Ser Pro Ser Thr Leu Asp Leu Asn
93      325      330
96 <210> SEQ ID NO: 3
97 <211> LENGTH: 897
98 <212> TYPE: DNA
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 3
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103 tactcgccca cctcaagtc agtcaggac caggcgtaga aggcaccgt ggtggtggag 120
104 ggaaggtac aggggtggt ccagccggc ggctccagct ccaacagcac ccgagagccg 180
105 ccgctctgg gtcgggtggc gttggtaaag gtgtggaca agtggccgt ccggagcggg 240
106 gggctgcagc gcgagcaggt gatcagcgtg ggctcctgtg tgcctctga aaggaaaccag 300
107 cgtacatct tttctctgga gccacggaa cagccttag tctttaagac ggcctttgcc 360
108 cccctcgata ccaacggcaa aaatctcaag aaagaggtgg gcaagatcct gtgcactgac 420
109 tgcgccaccc ggcccaagtt gaagaagatg aagagccaga cgggacaggt gggtgagaag 480
110 caatcgctga agtgtgaggc agcagccggt aatcccagc ctctctaccg ttggttcaag 540
111 gatggcaagg agctcaaccg cagccgagac attcgcatca aatatggcaa cggcagaaaag 600
112 aactcacgac tacagttcaa caaggtgaag gtggaggacg ctggggagta tgtctgcgag 660
113 gcgagaaca tctgtgggaa ggacacgtc cggggccggc tttacgtcaa cagcgtgagc 720

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114 accaccctgt catctgggtc ggggcacgcc cggaagtgc aagagacagc caagtcctat 780
115 tgggtcaatg gaggggtctg ctactacatc gagggcatca accagctctc ctgcaagtgt 840
116 cctgtgggat acacggggga caggtgtcag cagttcgcaa tggtaactt ctcttaa 897
118 <210> SEQ ID NO: 4
119 <211> LENGTH: 298
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 4
124 Met Arg Arg Asp Pro Ala Prc Gly Phe Ser Met Leu Leu Phe Gly Val
125 1 5 10 15
126 Ser Leu Ala Cys Tyr Ser Prc Ser Leu Lys Ser Val Gln Asp Gln Ala
127 20 25 30
128 Tyr Lys Ala Pro Val Val Val Glu Gly Lys Val Gln Gly Leu Val Pro
129 35 40 45
130 Ala Gly Gly Ser Ser Ser Asn Ser Thr Arg Glu Pro Pro Ala Ser Gly
131 50 55 60
132 Arg Val Ala Leu Val Lys Val Leu Asp Lys Trp Pro Leu Arg Ser Gly
133 65 70 75 80
134 Gly Leu Gln Arg Glu Gln Val Ile Ser Val Gly Ser Cys Val Pro Leu
135 85 90 95
136 Glu Arg Asn Gln Arg Tyr Ile Phe Phe Leu Glu Pro Thr Glu Gln Pro
137 100 105 110
138 Leu Val Phe Lys Thr Ala Phe Ala Pro Leu Asp Thr Asn Gly Lys Asn
139 115 120 125
140 Leu Lys Lys Glu Val Gly Lys Ile Leu Cys Thr Asp Cys Ala Thr Arg
141 130 135 140
142 Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly Glu Lys
143 145 150 155 160
144 Gln Ser Leu Lys Cys Glu Ala Ala Ala Gly Asn Pro Gln Pro Ser Tyr
145 165 170 175
146 Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp Ile Arg
147 180 185 190
148 Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe Asn Lys
149 195 200 205
150 Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu Asn Ile
151 210 215 220
152 Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser Val Ser
153 225 230 235 240
154 Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr
155 245 250 255
156 Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly
157 260 265 270
158 Ile Asn Gln Leu Ser Cys Lys Cys Pro Val Gly Tyr Thr Gly Asp Arg
159 275 280 285
160 Cys Gln Gln Phe Ala Met Val Asn Phe Ser
161 290 295
164 <210> SEQ ID NO: 5
165 <211> LENGTH: 20
166 <212> TYPE: DNA

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167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 5
170 gcatcaacca gctctcctgc 20
172 <210> SEQ ID NO: 6
173 <211> LENGTH: 20
174 <212> TYPE: DNA
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 6
178 gcatcaacca gctctcctgc 20
180 <210> SEQ ID NO: 7
181 <211> LENGTH: 20
182 <212> TYPE: DNA
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 7
186 tgccgaactgc tgacacctgt 20
188 <210> SEQ ID NO: 8
189 <211> LENGTH: 21
190 <212> TYPE: DNA
191 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 8
194 ccaccttttg agcaagttca g 21
196 <210> SEQ ID NO: 9
197 <211> LENGTH: 21
198 <212> TYPE: DNA
199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 9
202 gaggtggctt atgagttctt c 21
204 <210> SEQ ID NO: 10
205 <211> LENGTH: 19
206 <212> TYPE: DNA
207 <213> ORGANISM: Homo sapiens
209 <400> SEQUENCE: 10
210 ggccaccaca cagacgatg 19
212 <210> SEQ ID NO: 11
213 <211> LENGTH: 20
214 <212> TYPE: DNA
215 <213> ORGANISM: Homo sapiens
217 <400> SEQUENCE: 11
218 gtgagcacca cctgtcatc 20
220 <210> SEQ ID NO: 12
221 <211> LENGTH: 34
222 <212> TYPE: DNA
223 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 12
226 gagctagtct agagtggctt atgagtatctt cttc 34
228 <210> SEQ ID NO: 13
229 <211> LENGTH: 35
230 <212> TYPE: DNA
231 <213> ORGANISM: Homo sapiens

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233 <400> SEQUENCE: 13
234 cagcagttcg caatggtcaa cttctcctaa gcacc 35
236 <210> SEQ ID NO: 14
237 <211> LENGTH: 34
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 14
242 cagcagttcg caatggtcaa cttctccaag cacc 34
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 35
246 <212> TYPE: DNA
247 <213> ORGANISM: Homo sapiens
249 <400> SEQUENCE: 15
250 cagcagttcg caatggtcaa cttctcctaa gcacc 35
252 <210> SEQ ID NO: 16
253 <211> LENGTH: 23
254 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: derived from Rattus norvegicus and Homo sapiens
260 <400> SEQUENCE: 16
261 Ala Pro Leu Glu Arg Asn Gln Arg Tyr Ile Phe Phe Leu Glu Pro Thr
262 1 5 10 15
263 Glu Gln Pro Leu Val Phe Lys
264 20
267 <210> SEQ ID NO: 17
268 <211> LENGTH: 17
269 <212> TYPE: PRT
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: derived from Rattus norvegicus and Homo sapiens
275 <400> SEQUENCE: 17
276 Asn Ser Arg Leu Gln Phe Asn Lys Val Lys Val Glu Asp Ala Gly Glu
277 1 5 10 15
278 Tyr
282 <210> SEQ ID NO: 18
283 <211> LENGTH: 15
284 <212> TYPE: PRT
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: derived from Rattus norvegicus and Homo sapiens
290 <400> SEQUENCE: 18
291 Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser
292 1 5 10 15

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VERIFICATION SUMMARY

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Input Set : A:\04585.049002.SEQLIST.TXT

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